

### LITTLE COLORADO RIVER BASIN

#### 09397000 LITTLE COLORADO RIVER AT HOLBROOK, AZ

**LOCATION**--Lat 34°53'52", long 110°09'45", in SW<sub>1/4</sub>/SW<sub>1/4</sub> sec. 6, T.17 N., R.21 E., Navajo County, Hydrologic Unit 15020008, on east side of Hwy. 77 bridge, and 2 miles below mouth of Puerco River.

**DRAINAGE AREA**--11,462 mi<sup>2</sup>.

**PERIOD OF RECORD**--Nov. 2003 to current year. Records for Mar. to Nov. 1905, Dec. 1905 to Aug. 1906 (monthly discharge only), Sept. 1906 to Apr. 1907, May 1907 to Dec. 1909 (gage heights only), Sept. 1949 to Sept. 1973 at site 1/8 mile downstream.

**GAGE**--Water-stage recorder. Datum of gage is 5,062.87 ft above sea level. Mar. 1905 to Dec. 1909, non-recording gage.

**REMARKS**--Records fair except for estimated daily discharges, which are poor. Diversions above station for irrigation of about 23,000 acres. Some regulation by reservoirs.

**EXTREMES FOR PERIOD OF RECORD**--Maximum discharge, 24,200 ft<sup>3</sup>/s Oct. 4, 1968, gage height, 12.55 ft; maximum gage height, 15.20 ft. Oct. 20, 1972; no flow at times.

**EXTREMES OUTSIDE PERIOD OF RECORD**--Peak discharge of flood of Sept. 19, 1923, was computed as 60,000 ft<sup>3</sup>/s, from cross section and slope of water surface by Corps of Engineers, whose studies indicate that this was probably the greatest flood since 1870.

**EXTREMES FOR CURRENT YEAR**--Peak discharges greater than base discharge of 4,000 ft<sup>3</sup>/s and (or) maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Sept. 29.....	1300	*3,690	*9.63

Minimum daily discharge, no flow for many days.

#### DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	3.3	2.6	2.7	2.0	0.92	1.4	0.34	e1.2	1.7	2.0
2	---	---	2.9	2.2	2.6	1.3	2.8	1.4	0.17	e0.50	0.94	1.8
3	---	---	2.6	2.1	2.5	1.6	7.7	1.3	0.16	e0.50	0.33	2.6
4	---	---	2.5	1.9	2.4	1.7	2.4	0.81	0.11	e0.50	1.2	12
5	---	---	2.4	1.8	2.4	3.3	4.0	e0.61	0.26	e0.10	1.2	316
6	---	---	2.5	1.8	2.5	2.2	55	e0.19	0.12	e0.10	0.87	149
7	---	---	2.6	2.4	2.2	6.2	14	0.24	0.00	e0.00	46	68
8	---	---	2.5	1.9	2.5	11	5.4	0.27	0.00	0.00	22	19
9	---	---	3.7	e1.8	2.5	5.1	1.7	0.20	0.00	0.00	25	6.3
10	---	---	3.4	2.1	2.5	3.4	1.0	0.18	0.00	0.00	5.7	2.0
11	---	---	3.7	2.3	2.5	2.4	0.80	0.14	0.00	0.00	2.6	1.7
12	---	---	3.9	2.4	2.2	2.3	4.2	0.17	0.00	e0.01	1.5	4.3
13	---	---	4.7	2.5	e2.0	36	7.5	0.16	0.00	e0.50	1.9	2.3
14	---	---	5.6	2.1	3.1	37	3.4	0.12	0.00	133	5.6	0.90
15	---	---	4.7	2.7	e3.0	9.3	1.7	0.12	0.00	1330	556	2.7
16	---	---	5.3	2.4	e3.5	4.3	2.3	0.12	0.00	195	679	2.3
17	---	---	e5.0	1.9	3.9	3.4	1.1	0.11	0.00	53	343	2.1
18	---	---	5.9	3.5	3.6	2.9	0.55	0.05	0.00	11	142	2.1
19	---	---	e5.0	e3.5	3.2	2.4	0.59	0.07	0.00	5.9	94	525
20	---	---	5.0	3.7	3.8	1.8	0.81	0.04	0.00	4.9	71	227
21	---	---	2.7	3.9	3.5	1.2	1.0	0.06	0.00	4.9	251	202
22	---	---	2.2	3.9	3.4	1.4	0.99	0.05	0.00	4.1	196	62
23	---	---	2.1	4.2	3.6	1.9	0.82	0.05	0.00	3.4	31	18
24	---	---	2.3	4.0	3.4	4.5	1.1	0.10	e0.00	3.4	29	4.7
25	---	---	2.8	3.3	3.3	2.2	0.98	0.08	e0.00	45	165	2.9
26	---	2.6	2.8	e3.0	3.1	1.4	0.66	0.12	e0.00	14	31	3.4
27	---	2.5	1.7	2.8	2.7	1.3	0.88	0.17	e0.00	7.2	12	1.6
28	---	2.0	2.8	2.6	2.1	1.5	1.1	0.13	e0.00	81	3.2	4.5
29	---	3.1	e4.0	2.4	1.5	1.6	0.77	0.14	e0.00	16	2.6	1540
30	---	3.1	7.6	2.4	---	1.2	0.76	0.16	e5.0	8.5	2.3	494
31	---	---	3.6	2.3	---	0.76	---	0.35	---	2.6	1.3	---
TOTAL	---	---	111.8	82.4	82.2	158.56	126.93	9.11	6.16	1926.31	2725.94	3682.20
MEAN	---	---	3.61	2.66	2.83	5.11	4.23	0.29	0.21	62.1	87.9	123
MAX	---	---	7.6	4.2	3.9	37	55	1.4	5.0	1330	679	1540
MIN	---	---	1.7	1.8	1.5	0.76	0.55	0.04	0.00	0.00	0.33	0.90
MED	---	---	3.3	2.4	2.7	2.2	1.1	0.14	0.00	3.4	12	4.4
AC-FT	---	---	222	163	163	315	252	18	12	3820	5410	7300
CFSM	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01

e Estimated